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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. HYZ-041)

In re Application of: )  
 )  
Bruce L. Frank et al. ) Examiner:  
 )  
Serial No.: 08/467,397 ) Group Art  
 ) Unit:  
Filed: June 6, 1995 )  
 )  
For: OLIGONUCLEOTIDES SPECIFIC FOR )  
HEPATITIS B VIRUS )

\*\*\*\*\*  
I hereby certify that this correspondence is being  
deposited with the United States Postal Service as  
first class mail in an envelope addressed to:  
Assistant Commissioner For Patents, Washington, D.C.  
20231 on the date set forth below.

September 26, 1995  
Date of Signature  
and of Mail Deposit

By Ann-Louise Kerner  
Ann-Louise Kerner, Ph.D.  
Registration No. 33,523  
Attorney for Applicant

\*\*\*\*\*

Box Missing Part  
Assistant Commissioner For Patents  
Washington, D.C. 20231

RESPONSE TO NOTICE TO FILE MISSING PARTS  
OF APPLICATION

Dear Sir:

Submitted herewith are a Response to the Notice To File  
Missing Parts of Application dated September 15, 1995, in  
connection with the above-referenced patent application, a copy  
of the patent application and drawings as filed, and two (2)  
executed Declarations and Powers of Attorney.

020TL 10/11/95 08467397

1105 130.00 CK

A check for \$130.00 to cover the surcharge fee of \$130.00 set out in 37 C.F.R. 1.16(e) and a copy of the Notice to File Missing Parts of Application are also submitted herewith. The fee paid in response to the Notice reflects Applicant's large entity status.

Please charge any additional fees and credit any overpayments associated with this correspondence to Deposit Account No. 12-0448 and, for this purpose, we enclose a duplicate copy of this response.

If there are any questions, please call the undersigned at the telephone number indicated below.

Respectfully submitted,

LAPPIN & KUSMER

*Ann-Louise Kerner*  
Ann-Louise Kerner, Ph.D.  
Registration No. 33,523  
Attorney for Applicants

200 State Street  
Boston, MA 02109  
(617) 330-1300

Date: September 26, 1995

08/467397

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PATENT AGENT:  
DAVID F. CROSBY

June 6, 1995

EXPRESS MAIL LABEL NO. EF075041701US

BOX PATENT APPLICATION  
Hon. Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventors: 1-00 et al  
Bruce L. Frank, Peter C. Roberts, John Goodchild, J. Charles Craig, John S. Mills, Andrew Slade,  
Robert E. Kilkuskie, Noel A. Roberts and Raymond Jupp

For: OLIGONUCLEOTIDES SPECIFIC FOR HEPATITIS B VIRUS

Case No.: HYZ-041

Enclosed are:

- ☒ Specification, claims and abstract (100 pages);
- ☒ Informal Drawings (12 sheets);
- ☒ Unexecuted Declaration and Power of Attorney;
- ☒ Statement Under 37 CFR §1.821(f) and diskette referenced therein;

Basic Fee .....	\$ 730.00
Additional Fees:	
Total Number of claims in excess of 20 times per claim fee (206-20 = 186) (Each multiple dependent claim should be counted as the number of claims from which it depends)	\$ 4,092.00
Number of independent claims minus 3 times per claim fee (6-3 = 3) .....	\$ 228.00
Surcharge for including one or more multiple dependent claims .....	\$ 0.00
Total Filing Fee .....	\$ 5,050.00
Assignment recording fee .....	\$ 0.00
Total Filing Fee .....	\$ 5,050.00

- ☒ A check in the amount of \$5,050.00 to cover the total fee is enclosed.

LAPPIN & KUSMER

Page Two

[X] Please charge any fees or credit any overpayment to our Deposit Account No. 12-0448.

Respectfully submitted,

LAPPIN & KUSMER

By: Ann-Louise Kerner

Ann-Louise Kerner, Ph.D.  
Registration No. 33,523  
Attorney for Applicants  
Tel. No. (617) 330-1300

200 State Street  
Boston, MA 02109

Dated: June 6, 1995

**HYZ-041 -PARENT PATENT APPLICATION**

SERIAL NO. 08/467,397

FILED ON JUNE 6, 1995

INVENTORS: Bruce L. Frank, Peter C. Roberts, John Goodchild,  
J. Charles Craig, John S. Mills, Andrew Slade,

Robert E. Kilkuskie, Noel A. Roberts, and Raymond Jupp





UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
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08/467,397 06/06/95 FRANK

B HYZ-041

0232/0915

LAPPIN & KUSMER  
TWO HUNDRED STATE STREET  
BOSTON MA 02109

#5

DATE MAILED: 0000

**NOTICE TO FILE MISSING PARTS OF APPLICATION  
FILING DATE GRANTED**

09/15/95

An Application Number and Filing Date have been assigned to this application. However, the items indicated below are missing. The required items and fees identified below must be timely submitted **ALONG WITH THE PAYMENT OF A SURCHARGE** for items 1 and 3-6 only of \$ 130.00 for large entities or \$ 65.00 for small entities who have filed a verified statement claiming such status. The surcharge is set forth in 37 CFR 1.16(e).

If all required items on this form are filed within the period set below, the total amount owed by applicant as a ☒ large entity, ☐ small entity (verified statement filed), is \$ 130.00.

Applicant is given **ONE MONTH FROM THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE FILING DATE** of this application, **WHICHEVER IS LATER**, within which to file all required items and pay any fees required above to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

1. ☐ The statutory basic filing fee is: ☐ missing ☐ insufficient. Applicant as a ☐ large entity ☐ small entity, must submit \$ \_\_\_\_\_ to complete the basic filing fee.
2. ☐ Additional claim fees of \$ \_\_\_\_\_ as a ☐ large entity, ☐ small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
3. ☐ The oath or declaration:  
☐ is missing.  
☐ does not cover the newly submitted items.  
  
An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required.
4. ☐ The oath or declaration does not identify the application to which it applies. An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
5. ☒ The signature(s) to the oath or declaration is/are: ☒ missing; ☐ by a person other than the inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
6. ☐ The signature of the following joint inventor(s) is missing from the oath or declaration:  
  
\_\_\_\_\_. An oath or declaration listing the names of all inventors and signed by the omitted inventor(s), identifying this application by the above Application Number and Filing Date, is required.
7. ☐ The application was filed in a language other than English. Applicant must file a verified English translation of the application and a fee of \$ \_\_\_\_\_ under 37 CFR 1.17(k), unless this fee has already been paid.
8. ☐ A \$ \_\_\_\_\_ processing fee is required since your check was returned without payment. (37 CFR 1.21(m)).
9. ☐ Your filing receipt was mailed in error because your check was returned without payment.
10. ☐ The application does not comply with the Sequence Rules. See attached Notice to Comply with Sequence Rules 37 CFR 1.821-1.825.
11. ☐ Other. \_\_\_\_\_

Direct the response to Box Missing Part and refer any questions to the Customer Service Center at (703) 308-1202.

**A copy of this notice MUST be returned with the response.**